



7 OF PAPERS  
ORIGINALLY FILED

#6/a  
9/24/02  
Hawkins

RECEIVED  
SEP 20 2002  
TECHNOLOGY CENTER 2800

UNITED STATES PATENT AND TRADEMARK OFFICE

In re application:  
FRANK CORDIALE  
Serial No.: 09/731,637  
Filed: 12/07/00  
For: BRUSHLESS ELECTRIC MOTOR

Examiner: JUDSON JONES  
Art Unit: 2834

AMENDMENT

Box Fee Amendments  
Commissioner For Patents  
Washington, D.C. 20231

Dear Sir:

This Amendment is in response to the Office Action dated May 9, 2002. Enclosed please find a Petition For 1 Month Extension Of Time and check #2996 in the amount of \$55.00 for the Extension.

In the Claims  
Marked up version

1. ( Amended) A prime mover comprising a cylindrical framework wound with at least two copper filaments, a steel piston of spherical shape disposed axially concentric with said framework, a power source for energizing one of said copper filaments with electric current which induces said steel piston to move axially toward a central position of said energized windings, and at least one switch for controlling the energy flow in each of said copper filaments.
2. ( Amended) [A prime mover as set forth in Claim 1] A prime mover comprising a cylindrical framework wound with at least two copper filaments, a steel piston disposed axially concentric with said framework, a power source for energizing one of said copper filaments with electric current which induces said steel piston to move axially toward a central position of said energized windings, and at least one switch for controlling the energy flow in each of said copper filaments further comprising a permanent magnetic source for accelerating a reciprocation motion of said steel piston located at at least one end of said cylindrical framework..
3. ( Amended) A prime mover as set forth in Claim 1 [ wherein said piston is spherical in shape] further comprising magnet means located at an axial extreme of said coil..
4. ( Amended) A prime mover as set forth in Claim 2 [1] wherein said piston is shaped in the cross section of said framework.
5. ( Amended) A prime mover as set forth in Claim [1]2 wherein said prime mover further comprises a cylinder of non-magnetic material.
6. ( Amended) [A prime mover as set forth in Claim 5] A prime mover comprising a cylindrical framework wound with at least two copper filaments, a steel piston disposed axially concentric with said framework, a power source for energizing one of said copper filaments with electric current which induces said steel piston to move axially toward a central position of said energized windings, and at least one switch for controlling the energy flow in each of said copper filaments further comprising a cylinder of non-magnetic maerial wherein said non-magnetic material is brass.
7. ( Amended) A prime mover as set forth in Claim [1]2 wherein said frame is a high temperature resistant polymer.
8. ( Amended) A prime mover as set forth in Claim [1]2 wherein said switch comprises metal detection means for actuation.
9. ( Amended) A prime mover as set forth in Claim [1]2 wherein said switch comprises means for reacting to a position of said piston to cause actuation of said switch.
10. ( Amended) A prime mover as set forth in Claim [1]2 wherein said switch comprises timing means to time the actuation of said switch.